Performance Data Sheet

AWF5524EVA

General Information

Model	AWF5524EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4980	3870					
	Watts	784	753					
	Amps	3.74	3.59					
	Lb/h	64.2	52.4					
-10	Btu/h	6500	5430	4330				
	Watts	873	860	841				
	Amps	4.13	4.06	3.98				
	Lb/h	83.3	72.5	60.7				
-5	Btu/h	8050	6990	5900	4780			
	Watts	949	953	951	941			
	Amps	4.46	4.47	4.47	4.43			
	Lb/h	102	92.4	81.5	69.6			
0	Btu/h	9650	8570	7480	6360	5220		
	Watts	1010	1030	1050	1050	1050		
	Amps	4.73	4.82	4.89	4.93	4.94		
	Lb/h	122	113	102	90.9	78.6		
5	Btu/h	11300	10200	9090	7940	6780		
	Watts	1060	1100	1130	1160	1170		
	Amps	4.94	5.10	5.26	5.38	5.46		
	Lb/h	142	133	123	112	101		
10	Btu/h	13100	12000	10800	9570	8360	7140	5910
	Watts	1100	1150	1200	1250	1280	1300	1300
	Amps	5.10	5.34	5.57	5.77	5.94	6.04	6.08
	Lb/h	164	155	145	134	123	110	96.3
15	Btu/h	15100	13800	12500	11300	9990	8700	7410
	Watts	1120	1200	1260	1320	1370	1410	1430
	Amps	5.20	5.53	5.84	6.12	6.36	6.54	6.66
	Lb/h	187	178	168	157	146	133	119
20	Btu/h	17200	15800	14400	13100	11700	10300	8950
	Watts	1140	1230	1310	1390	1460	1510	1550
	Amps	5.27	5.67	6.06	6.42	6.74	7.01	7.20
	Lb/h	211	202	192	181	169	156	143

25	Btu/h	19500	18000	16500	15000	13500	12000	10500
	Watts	1150	1250	1360	1450	1530	1610	1660
	Amps	5.29	5.77	6.24	6.68	7.08	7.43	7.70
	Lb/h	238	229	218	207	194	181	167
30	Btu/h	22000	20400	18700	17100	15500	13800	12200
	Watts	1140	1270	1390	1500	1600	1690	1770
	Amps	5.27	5.84	6.39	6.91	7.39	7.81	8.17
	Lb/h	268	257	246	234	221	207	193
35	Btu/h	24800	23000	21200	19400	17600	15800	14000
	Watts	1130	1280	1410	1540	1660	1770	1860
	Amps	5.22	5.87	6.50	7.10	7.66	8.17	8.60
	Lb/h	300	289	277	264	250	235	220
40	Btu/h	27900	25900	23900	21900	19900	18000	16000
	Watts	1120	1280	1430	1580	1710	1840	1950
	Amps	5.15	5.87	6.59	7.27	7.91	8.50	9.01
	Lb/h	335	323	310	296	281	266	249
45	Btu/h	31300	29000	26800	24600	22500	20300	18200
	Watts	1090	1270	1440	1600	1760	1900	2030
	Amps	5.04	5.85	6.65	7.41	8.13	8.80	9.40
	Lb/h	374	360	346	331	315	298	281
50	Btu/h	35000	32600	30100	27700	25300	22900	20500
	Watts	1060	1260	1440	1630	1800	1960	2100
	Amps	4.92	5.81	6.69	7.53	8.34	9.09	9.76
	Lb/h	417	402	386	369	352	334	315
55	Btu/h	39100	36400	33700	31000	28400	25700	23100
	Watts	1030	1240	1450	1640	1830	2010	2170
	Amps	4.78	5.75	6.71	7.64	8.53	9.35	10.1
	Lb/h	464	447	429	411	392	372	352

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.712029E+04	9.288517E+02	5.226839E+00	1.715215E+02
C2	3.955502E+02	-1.567740E+01	-7.907170E-02	3.361336E+00
C3	-7.858469E+01	-2.861682E+00	-3.623280E-02	-3.867350E-01
C4	5.286079E+00	-2.485106E-01	-1.199631E-03	4.788543E-02
C5	-1.185759E+00	3.253149E-01	1.594053E-03	6.336455E-03
C6	-2.120621E-01	8.079106E-02	5.611775E-04	-2.226733E-03
C7	3.976739E-02	1.060382E-03	5.291861E-06	4.611665E-04
C8	-4.582300E-02	-5.608925E-05	7.614135E-07	-4.092868E-04
C9	4.094843E-03	1.152215E-04	-1.429708E-07	1.765104E-05
C10	3.355300E-04	-4.033067E-04	-2.326874E-06	-8.358305E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWF5524EVA

General Information

Model	AWF5524EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5970	5220					
	Watts	1020	1000					
	Amps	4.49	4.44					
	Lb/h	77.3	69.8					
-10	Btu/h	7320	6410	5640				
	Watts	1110	1110	1100				
	Amps	4.79	4.78	4.75				
	Lb/h	94.1	85.5	78.0				
-5	Btu/h	8930	7870	6940	6090			
	Watts	1190	1200	1210	1210			
	Amps	5.06	5.09	5.11	5.09			
	Lb/h	114	104	95.8	87.6			
0	Btu/h	10800	9590	8500	7490	6520		
	Watts	1270	1290	1310	1320	1320		
	Amps	5.30	5.38	5.44	5.48	5.47		
	Lb/h	137	126	117	107	97.4		
5	Btu/h	12900	11600	10300	9140	7990		
	Watts	1330	1370	1410	1430	1450		
	Amps	5.50	5.64	5.75	5.84	5.89		
	Lb/h	163	151	140	130	119		
10	Btu/h	15300	13800	12400	11000	9710	8390	7020
	Watts	1390	1440	1490	1540	1560	1570	1570
	Amps	5.68	5.86	6.04	6.18	6.28	6.33	6.31
	Lb/h	191	179	167	156	144	130	114
15	Btu/h	17800	16200	14600	13100	11600	10200	8600
	Watts	1430	1510	1570	1630	1670	1700	1710
	Amps	5.82	6.06	6.29	6.49	6.66	6.77	6.81
	Lb/h	221	208	196	184	171	156	139
20	Btu/h	20600	18800	17100	15400	13800	12100	10400
	Watts	1470	1560	1640	1720	1780	1820	1850
	Amps	5.92	6.23	6.52	6.78	7.01	7.18	7.29
	Lb/h	254	240	228	215	201	185	167

25	Btu/h	23500	21600	19700	17900	16100	14300	12400
	Watts	1490	1600	1700	1790	1870	1940	1980
	Amps	5.99	6.36	6.71	7.04	7.33	7.57	7.75
	Lb/h	288	275	261	248	233	217	198
30	Btu/h	26600	24600	22600	20600	18700	16700	14600
	Watts	1500	1630	1750	1860	1960	2050	2110
	Amps	6.03	6.46	6.88	7.27	7.63	7.94	8.19
	Lb/h	324	310	297	283	267	250	230
35	Btu/h	29900	27700	25600	23500	21400	19200	16900
	Watts	1510	1650	1790	1920	2040	2150	2230
	Amps	6.03	6.53	7.01	7.47	7.90	8.28	8.61
	Lb/h	362	348	334	320	304	286	265
40	Btu/h	33300	31000	28700	26500	24200	21900	19500
	Watts	1500	1660	1820	1970	2110	2240	2340
	Amps	5.99	6.56	7.11	7.65	8.15	8.60	9.00
	Lb/h	401	387	373	358	342	324	302
45	Btu/h	36800	34400	32000	29600	27200	24700	22100
	Watts	1470	1660	1840	2010	2180	2320	2450
	Amps	5.92	6.55	7.18	7.79	8.37	8.90	9.38
	Lb/h	441	427	413	398	382	363	341
50	Btu/h	40400	37900	35400	32900	30300	27600	24900
	Watts	1440	1650	1850	2040	2230	2390	2540
	Amps	5.80	6.51	7.22	7.90	8.56	9.17	9.73
	Lb/h	482	468	454	439	423	404	382
55	Btu/h	44200	41500	38900	36200	33500	30700	27800
	Watts	1390	1620	1850	2060	2270	2460	2630
	Amps	5.65	6.44	7.22	7.98	8.72	9.41	10.1
	Lb/h	524	510	496	481	465	446	423

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.895721E+04	1.215821E+03	5.453167E+00	3.494167E+02
C2	5.744450E+02	-8.302188E+00	-2.560860E-02	5.462313E+00
C3	-3.642444E+02	-5.194792E+00	-2.626370E-02	-4.966056E+00
C4	4.371107E+00	-3.095997E-01	-1.037428E-03	3.609978E-02
C5	-1.502092E+00	2.700966E-01	7.660335E-04	1.681021E-03
C6	2.195291E+00	1.173957E-01	4.717088E-04	3.889311E-02
C7	-1.950771E-02	-5.109208E-04	-1.043261E-06	-2.732207E-04
C8	5.928443E-03	1.550053E-03	5.059719E-06	2.296567E-04
C9	-8.618990E-03	1.029657E-04	1.362247E-06	-1.153001E-04
C10	-5.984715E-03	-5.570380E-04	-2.099124E-06	-1.251012E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature